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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/781,674	02/20/2004	Hideaki Kimura	118135	5546
25944	7590	04/25/2005	EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			NGUYEN, TRAN N	
			ART UNIT	PAPER NUMBER
			2834	

DATE MAILED: 04/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No. 10/781,674	Applicant(s) KIMURA ET AL.	
	Examiner Tran N. Nguyen	Art Unit 2834	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) 1,2,8 and 20 is/are rejected.
- 7) ☐ Claim(s) 3-7, 9-19 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claims 1-2 and 8** are rejected under 35 U.S.C. 102(b) as being fully anticipated by **Kondo Tatsuya et al (JP 05-292693, hereafter Kondo)**.

Kondo discloses an insulating paper piece for electric motors, in which electrical insulation in areas where single pole coils arranged on a stator core are adjacent is heightened, the insulating paper piece (figs 4-6) comprising:

two slot cell portions (6) arranged in two slots of the stator core, in which insert portions of a single-pole coil (2b) are received, and

two phase insulation portions, shown as part of the insulating paper (4-5), a phase insulation portion connecting a respective end of each of the two slot cell portions (6) so as to form loops (fig 4-6), and disposed to face against coil end portions of the single pole coil (figs 1-2)

wherein:

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one or plural loop-shaped unit configurations comprising the two slot cell portions and the two phase insulation portions are aligned in a direction of extension of the phase insulation portions, and extensions of the phase insulation portions are connected together to be unified, so that electrical insulation of the plural unit coils is achieved (figs 4-6), and,

the insulating paper piece for electric motors is a part of a standard sheet having a property of electrical insulation that is cut and bent (fig 5 shows view A-A of the cut and bent insulating paper to form the two slot cell portions (6)).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-2 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Scherzinger et al (US 5,698,923)** in view of **Uchida et al (US 5,763,978)**.

Scherzinger discloses an insulating piece for electric motors, in which electrical insulation in areas where single pole coils arranged on a stator core are adjacent is heightened, the insulating paper piece (figs 2-3) comprising:

two slot cell portions (40, 50) arranged in two slots of the stator core (fig 3), in which insert portions of a pole coil (not shown) are received, and

two phase insulation portions (36, 38), a phase insulation portion connecting a respective end of each of the two slot cell portions (40, 50) so as to form loops (fig 4-6), and disposed to face against coil end portions of the single pole coil (figs 1-2),

wherein:

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plural loop-shaped unit configurations comprising the two slot cell portions and the two phase insulation portions are aligned in a direction of extension of the phase insulation portions, and extensions of the phase insulation portions are connected together to be unified, so that electrical insulation of the plural unit coils is achieved (figs 2-3), and

Scherzinger substantially discloses the claimed invention, except for the following limitations:

- (a) the insulating piece is insulating paper instead of insulating resin as disclosed by Scherzinger; and,
- (b) the winding is a distributing winding of different phases that having coils overlap one another (as in claim 20).

Uchida, however, for the purpose of providing insulating member that would not hindering the installing windings, teaches a motor having slot liner formed of insulating paper (col 7, lines 7-25) and the three-phase windings can be formed in various ways, including distributing windings (col 3 line 66-col 4 line 10). Those skilled in the art would understand that the insulating paper is a well known material for forming the slot liner to insulate the winding from the core, and multiphase distributing winding with overlap coils of different phases is a well-known winding arrangement in the art.

Thus, it would have been obvious to one skilled in the art at the time the invention was made to modify the motor insulating member by selecting insulating paper as the material for fabricating the insulating piece and to arrange the multiphase windings in a distributing manner so that different phase coils would overlap one another, as taught by Uchida. Doing so would respectively provide an insulating member that is formed with a well-known insulating paper that is commercially available, and multiphase distributing winding with overlap coils of different phases would enhance the magnetic characteristics thereof, as well as heat ventilation.

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Allowable Subject Matter

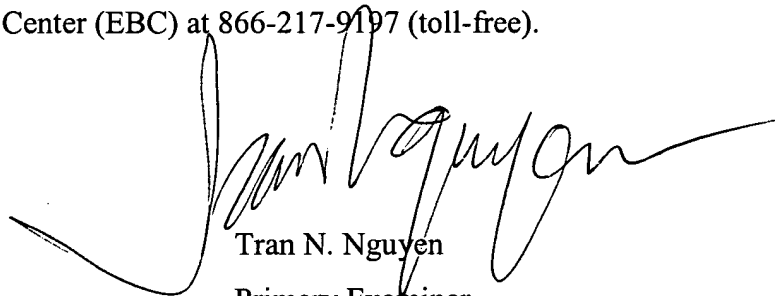
Claims 3-7, 9-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tran N. Nguyen whose telephone number is (571) 272-2030. The examiner can normally be reached on M-F 7:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571)-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Tran N. Nguyen', is written over the printed name and title.

Tran N. Nguyen
Primary Examiner

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